




# GEORGE MA

SOFTWARE DEVELOPER

416 605 0406

georgema86@gmail.com

 [george-ma.github.io](https://github.com/george-ma)

 [/george-ma](https://github.com/george-ma)

 [/georgema-](https://www.linkedin.com/in/georgema-)

## SKILL SET

- **Languages**  
Java, Python, C/C++, Javascript
- **Frameworks**  
Bootstrap, Flask, NodeJS/Express
- **Devops**  
Jira, Confluence, Linux, ELK Stack
- **Tools/Tech**  
Shell Scripting, MySQL, Git
- **Markup/Data**  
HTML5, CSS3, JSON, LaTeX

## EXPERIENCE

- **Software Engineering Intern | Evertz, Burlington** May 2018 - Aug 2018
  - Improved the runtime of a spreadsheet parsing, TCI/IP monitoring system by **60%** utilizing Python scripts.
  - Developed a multi-threaded Frame Synchronization application using **wxWidgets, C and Python**. Tool was built utilizing **multiple threads** which enabled processing to be done in the background, while still enabling the user to cycle through the multiple debug panels.
  - Worked with 2 senior engineers to develop internal automation tools for the **Chaos Engineering System** that **reduced regression test times by 5 hours**. Developed an HTTP web-scraper using Python Requests/BeautifulSoup.
  - Agile work-flow utilizing Jira/Confluence and daily scrums. Subversion (SVN) for version control.
- **Student Design Engineer | Evertz, Burlington** May 2017 - Aug 2017
  - Designed and developed two applications from scratch; a JSON to PDF Rest API Specification Generator for the WebEASY system, and an SFTP Indices Transfer solution for the **inSITE Big Data Analytics Engine**.
  - Extracting the Rest-API datasets into an easily readable and formatted PDF **increased conversion efficiency amongst engineers by 2 hours**.
  - Created a responsive interface for users, utilizing a Swing GUI front-end with a Java back-end.
  - Performed thorough testing using JUnit and developed within an agile environment, utilizing weekly sprints to facilitate product requirements.

## PROJECTS

- **RecipiBot | Python, Flask, Reddit API** 2018  
[github.com/george-ma/RecipiBot](https://github.com/george-ma/RecipiBot)
    - **Top 3 Chat Bot** and **Top 5 Overall** at the UofT CSSU/Platterz Hackathon
    - Facebook Messenger bot hosted on Heroku that allows for the discovery of new and exciting recipes from any ingredient the user requests
    - Provides the ability for users to chat to the bot using either text, the phone camera, and pre-existing images through the use of ClarifaiAPI
  - **Picasso | Java, JavaFX, SQL, Git, JUnit** 2017  
[github.com/george-ma/Picasso](https://github.com/george-ma/Picasso)
    - Fully featured image tagging manager made using **Java/JavaFX** for the backend/frontend and **SQLite** to persistently store tags in a database
    - Created a responsive UI, provided the ability to view image and complete history logs, add/remove tag, and search the database using multiple tags
- More projects on my Github

## EXTRACURRICULARS

- **Graphic Design Lead, TU20 Executive '17-'18**  
Silicon Halton | <http://techundertwenty.com>
  - Designed all promotional material in addition to t-shirts for the annual 50+ Student TU20 Cup, coordinating with companies such as Microsoft

## EDUCATION

- **B.S Computer Science, University of Toronto St. George | 2016 - 2020, Junior Year**
  - cGPA: 3.44
  - Activities: Intramural Basketball, CS FLC